## **WHAT IS CLAIMED IS:**

1		1.	A composition for the treatment of proliferative disorders, comprising:	
2		(i) lometrexol or a pharmaceutically acceptable salt thereof; and		
3		(ii) on	e or more antiproliferative agents or pharmaceutically acceptable salts	
4	thereof.			
1		2.	A composition in accordance with claim 1, further comprising folic	
2	acid.			
1		3.	A composition in accordance with claim 1, wherein said	
2	antiproliferati	ve agen	t is a member selected from the group consisting of alkylating drugs,	
_3	antimetabolites, microtubule inhibitors, podophyllotoxins, antibiotics, nitrosoureas, hormone			
· 사 사 :	therapies, kinase inhibitors, and antiangiogenic agents.			
1		4.	A composition in accordance with claim 1, wherein said	
2	antiproliferative agent is selected from the group consisting of carboplatin, doxorubicin,			
<u> </u>	gemcitabine HCl, temolozolamide, cyclophosphamide, methotrexate, paclitaxel, etoposide,			
4	carmustine, cisplatin, tamoxifen, and interferon.			
<b>-</b>		5.	A composition in accordance with claim 3, wherein said kinase	
2	inhibitor is selected from the group consisting of tyrphostin AG1478 (4-(3-chloroanilino)-			
3	6,7-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-N-			
4	(benzyl)-2-propenamide), indirubin-3'-monoxime, alsterpaullone, genistein, Iressa™			
5	(ZD1839), Gle	eevec™	(STI-571), SU5416, and Tarceva™ (OSI-774).	
1		6.	A method for the treatment of proliferative disorders, comprising	
2	administering	to a sub	oject in need of such treatment an effective amount of a composition	
3	comprising:			
4		(i) lom	netrexol or a pharmaceutically acceptable salt thereof; and	
5		(ii) one	e or more antiproliferative agents or pharmaceutically acceptable salts	
6	thereof.			
1		7.	A method in accordance with claim 6, said composition further	
2	comprising folic acid.			

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- A method in accordance with claim 6, wherein said proliferative 1 8. 2 disorder is cancer.
- A method in accordance with claim 8, wherein said cancer is selected 9. 1 from the group consisting of a solid tumor, a lymphoma, and a leukemia. 2
  - A method in accordance with claim 9, wherein said solid tumor is **10**. selected from the group consisting of ovarian, breast, head and neck, prostate, glioma, colon, stomach, hepatic, renal, chondrocytoma, small cell lung carcinoma, non-small cell lung carcinoma, and melanoma.
  - A method in accordance with claim 6, wherein said proliferative 11. disorder is selected from the group consisting of rheumatoid arthritis, psoriasis, and benign prostatic hyperplasia.
  - 12. A method in accordance with claim 8, wherein said antiproliferative agent is a member selected from the group consisting of alkylating drugs, antimetabolites, microtubule inhibitors, podophyllotoxins, antibiotics, nitrosoureas, hormone therapies, kinase inhibitors, and antiangiogenic agents.
  - A method in accordance with claim 8, wherein said antiproliferative 13. agent is selected from the group consisting of carboplatin, doxorubicin, gemcitabine HCl, temolozolamide, cyclophosphamide, methotrexate, paclitaxel, etoposide, carmustine, cisplatin, tamoxifen, and interferon.
- A method in accordance with claim 12, wherein said kinase inhibitor is 14. 1 selected from the group consisting of tyrphostin AG1478 (4-(3-chloroanilino)-6,7-2 dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-N-(benzyl)-2-3 propenamide), indirubin-3'-monoxime, alsterpaullone, genistein, Iressa™ (ZD1839),
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- Gleevec™ (STI-571), SU5416, and Tarceva™ (OSI-774). 5
- A method in accordance with claim 6, wherein said antiproliferative **15**. 1 agent is a member selected from the group consisting of alkylating drugs, antimetabolites, 2 microtubule inhibitors, podophyllotoxins, antibiotics, nitrosoureas, hormone therapies, kinase 3 4 inhibitors, and antiangiogenic agents.

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1	<b>16</b> .	A method in accordance with claim 6, wherein said antiproliferative
2	agent is selected from	the group consisting of carboplatin, doxorubicin, gemcitabine HCl,
3	temolozolamide, cycl	ophosphamide, methotrexate, paclitaxel, etoposide, carmustine,
4	cisplatin, tamoxifen,	and interferon.

- 17. A method in accordance with claim 15, wherein said kinase inhibitor is selected from the group consisting of tyrphostin AG1478 (4-(3-chloroanilino)-6,7-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-N-(benzyl)-2-propenamide), indirubin-3'-monoxime, alsterpaullone, genistein, Iressa™ (ZD1839), Gleevec™ (STI-571), SU5416, and Tarceva™ (OSI-774).
- 18. A method for the treatment of proliferative disorders, comprising administering to a subject in need of such treatment
- (i) an effective first amount of lometrexol or a pharmaceutically acceptable salt thereof; and
- (ii) an effective second amount of one or more antiproliferative agents or pharmaceutically acceptable salts thereof.
- 19. A method in accordance with claim 18, said composition further comprising folic acid.
- 20. A method in accordance with claim 18, wherein said amount of lometrexol and said amount of antiproliferative agent are administered simultaneously.
- 21. A method in accordance with claim 18, wherein said amount of lometrexol is administered before said amount of antiproliferative agent.
- 1 22. A method in accordance with claim 18, wherein said amount of 2 lometrexol is administered before said amount of antiproliferative agent within a day.
- 1 23. A method in accordance with claim 18, wherein said amount of lometrexol is administered before said amount of antiproliferative agent within a week.
- 24. A method in accordance with claim 18, wherein said amount of antiproliferative agent is administered before said amount of lometrexol.

- 33. A method in accordance with claim 31, wherein said kinase inhibitor is selected from the group consisting of tyrphostin AG1478 (4-(3-chloroanilino)-6,7-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-N-(benzyl)-2-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-1-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)
- 4 propenamide), indirubin-3'-monoxime, alsterpaullone, genistein, Iressa™ (ZD1839),
- 5 Gleevec<sup>TM</sup> (STI-571), SU5416, and Tarceva<sup>TM</sup> (OSI-774).

cisplatin, tamoxifen, and interferon.

- 34. A method in accordance with claim 18, wherein said antiproliferative agent is a member selected from the group consisting of alkylating drugs, antimetabolites, microtubule inhibitors, podophyllotoxins, antibiotics, nitrosoureas, hormone therapies, kinase inhibitors, and antiangiogenic agents.
- 35. A method in accordance with claim 18, wherein said antiproliferative agent is selected from the group consisting of carboplatin, doxorubicin, gemcitabine HCl, temolozolamide, cyclophosphamide, methotrexate, paclitaxel, etoposide, carmustine, cisplatin, tamoxifen, and interferon.
- 36. A method in accordance with claim 34, wherein said kinase inhibitor is selected from the group consisting of tyrphostin AG1478 (4-(3-chloroanilino)-6,7-dimethoxyquinazoline), tyrphostin AG490 (2-cyano-3-(3,4-dihydroxyphenyl)-N-(benzyl)-2-propenamide), indirubin-3'-monoxime, alsterpaullone, genistein, Iressa™ (ZD1839), Gleevec™ (STI-571), SU5416, and Tarceva™ (OSI-774).